

AIR RESOURCES BOARD

## DEERE POWER SYSTEMS GROUP OF DEERE & COMPANY

EXECUTIVE ORDER U-R-004-0128 New Off-Road

Compression-Ignition Engines

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2002	2JDXL06.8046	6.8, 4.5	Diesel	8000
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT	APPLICATION
	Direct Diesel Inje	ction	Compressor, Industria	al Equipment

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED	EMISSION		•	E	XHAUST (g/kw-l	ir)		OF	PACITY (%	6)
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	со	PM	ACCEL.	LUG	PEAK
37≤ KW <75	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50
75< KW <130	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50
		FEL	-	-	-	-	0.29	-		-
		CERT	-	7.6	_	-	0.28	2	3	5

**BE IT FURTHER RESOLVED:** That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this \_\_\_\_\_\_ day of May 2002.

Aller Lyons, Chief

New Vehicle/Engine Programs Branch

## **Engine Model Summary Form**

Manufacturer: Deere Power Systems Group of Deere and

Engine category: Nonroad CI
EPA Engine Family: 2JDXL06.8046

Mtr Family Name:

350DE

Process Code: New Submission

8-10-4-0128

ATTACHMENT 1 of 1

4045D     52 69.73@2500     48.20@2500     50.70@2500     30.71@2500     30.71@2500     207.20       4045D     80.46@2500     55.00@2500     30.86@2500     217.5       4045D     81.13@2400     58.00@2500     33.07@2500     228.6       4045D     71.07@1800     67.00@1800     26.46@1800     26.46@1800       4045D     77.78@2200     60.00@2200     28.66@2200     230.0       4045D     77.78@2200     60.00@2200     28.66@2200     230.0	<u> </u>	1.Engine Code	ode	E.	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5. Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque		8.Fuel Rate: (lbs/hr)@peak torque	8.Fuel Rate: 9.E. (lbs/hr)@peak torque Devic	8.Fuel Rate: 9.Emissio (lbs/hr) @peak torque Device Per	9.Emis e Device P
4045D <b>52</b> 69,73@2500 48.20@2500 26.46@2500 4045D 80.46@2500 55.00@2500 30.86@2500 4045D <b>63</b> 84.48@2500 58.00@2500 33.07@2500 4045D 71.07@1800 67.00@1800 26.46@1800 4045D 77.78@2200 60.00@2200 28.66@2200 28.66@2200	*	6068DF150A	1	: <b>مــ</b> : - ــ :	132.76@2500	60.00@2500	50.71@2500	342.18@1100	73	73@1100		,	26.46@1100	26.46@1100
4045D 80.46@2500 55.00@2500 30.86@2500 4045D 63 84.48@2500 58.00@2500 33.07@2500 4045D 81.13@2400 58.00@2400 30.86@2400 4045D 71.07@1800 67.00@1800 26.46@1800 4045D 77.78@2200 60.00@2200 28.66@2200		4045DF150G	}		69.73@2500	48.20@2500	26.46@2500	207.23@1000	တ	62.9@1000			14.11 @ 1000	
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4045D 71.07@1800 67.00@1800 26.46@1800 4045D 77.78@2200 60.00@2200 28.66@2200		4045DF150E	4045D		81.13@2400	58.00@2400	30.86@2400	223.45@1100		71@1100	71@1100 17.64@1100		17.64@1100	17.64@1100
4045D 77.78@2200 60.00@2200 28.66@2200		1045DF150D/1	4045D	:	71.07@1800	67.00@1800	26.46@1800							EX
		4045DF150C	4045D		77.78@2200	60.00@2200	28.66@2200	230.09@1200	1	72@1200	72@1200 19.84@4200		19.84@1200	
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